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Cyanamid's New Bid for Muscle Shoals

Bill Recommending Its Acceptance By the Government Introduced by Representative Madden, Chairman of House Appropriations Committee—More Favorable Offer Than One By Power Company or Henry Ford—Bill Endorsed by Agent of American Farm Bureau Federation

Washington—Jan. 26—Mr. Madden (Rep. Ill.), chairman of the House appropriations committee has introduced a bill authorizing the government to accept the latest offer of American Cyanamid Co. for the government's power development and nitrate plant at Muscle Shoals. Madden believes this bid is better than those of Henry Ford and the Associated Power Co. Mr. Madden said:

"The power company proposed to build a new power plant at an estimated cost of from \$15,000,000 to \$20,000,000. The farmers must pay on this at the rate of about \$1,000,000 per year and depreciation charges of about another \$1,000,000 annually. In all the record I know of nothing to indicate that by adopting a new process involving additional charges of \$2,000,000 per year, we will thereby be able to produce fertilizers more cheaply than by the use of our present plan.

"The farmers contend that Congress should not accept any offer that will unnecessarily add \$2,000,000 to their fertilizer bills at Muscle Shoals, and in my judgment, the farmers are right."

"The original Cyanamid offer," said Mr. Madden, "provides for production of fertilizer containing 40,000 tons of fixed nitrogen, the same as Ford's offer, but under my bill the Cyanamid company agrees to produce fertilizers annually containing not less than 48,000 tons of fixed nitrogen, an increase of 20 per cent. over the Ford offer, and this increase is equal to more than half of the fixed nitrogen contained in Chilean nitrates we imported in 1914.

"The Cyanamid company proposes to furnish all of its patented pro-

cesses for producing fertilizers free of any royalty charges. Ford's offer did not propose to do so."

Mr. Madden thought bids submitted to the Muscle Shoals Commission last Winter by power companies in Alabama and now pending in the House and the Senate did not conform to the requirements of the National Defense act, but that the bid of the New York corporation does. The Cyanamid bid offers to turn out nitrates, while the others would keep nitrate plant No. 2 idle, Mr. Madden contended.

Chester Gray, Washington agent, American Farm Bureau Federation, endorsed the plan submitted by Mr. Madden, saying:

"The answer to the power trust's proposal to take over Muscle Shoals came today with the introduction of the Madden bill accepting the revised offer of American Cyanamid Co., which has the endorsement of organized agriculture," said Mr. Gray.

"The revised offer of the Cyanamid company increased by 20 per cent the amount of fertilizer guaranteed. This means nitrogen sufficient for more than 2,000,000 tons of ordinary mixed fertilizer.

"The lease assures the Government 4 per cent on the peace-time cost of the Muscle Shoals dam and equipment, takes over all present costs of maintenance, sets aside an amortization fund which eventually returns the Government's capital and in addition gives back to the Government the entire development at the end of the fiftieth year lease period."

The bid for Muscle Shoals asks
(Continued on page 143.)

RAYON MAKERS MERGE

Rayon producers of Europe have made working agreements with Snia Viscosa, of Italy. Reports in London are to the effect that the arrangement will not necessitate new capital, but if it eventuates will carry world-wide importance to rayon manufacturers, as Courtauld's controls American Viscose Co. and already has a definite arrangement with the Glanzstoff interests, which control about 75 per cent of the fiber output in Germany.

MELINITE INVENTOR DEAD

Francois Eugene Turpin, who invented melinite, died at his home near Paris, France, Sunday, Jan. 23, at the age of 79, from congestion of the lungs. He was arrested in 1889 by the Government on charge of selling his invention to a foreign power and was convicted, but was pardoned in 1893.

NEW NITRATE OFFER

Nitrate Producers Association of Chile will sell 400,000 tons of soda nitrate at 19s 9d per metric quintal, guaranteeing to repurchase 75 per cent, plus ocean freights, insurance, unloading and handling charges, if not sold.

Applications of Lacquer & Chemical Co. and Great Northern Chemical Co., for an injunction to restrain the Government from forcing them to use alcohol denatured under formula No. 1 instead of 3 A have been denied.

U. S. House bill affecting helium gas has been passed by the House. It provides for transfer of all Government plants for its manufacture to the Bureau of Mines.

Hearings in James S. Kirk & Co.'s castile soap case are being held in Boston, this week.



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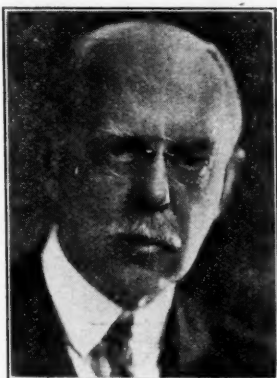
Cleveland

DR. LITTLE CELEBRATES

Arthur D. Little, Inc., celebrated its fortieth anniversary at a banquet in its Cambridge laboratories Dec. 30. Dr. James F. Norris, president American Chemical Society, presented the congratulations of the chemical profession, and greetings were read from former associates.

In 1909 the business was incorporated as Arthur D. Little, Inc. There were many specialists on the staff, and departments were maintained for analyses and tests, research, fuel engineering, lubrication, forest products, biology, textiles and chemical engineering.

By 1914 the need for enlarged



Dr. Arthur D. Little

quarters and more working capital became imperative, and the company was reorganized with \$250,000 preferred and \$500,000 common stock, and the research laboratory building on Charles River Road, Cambridge, was built.

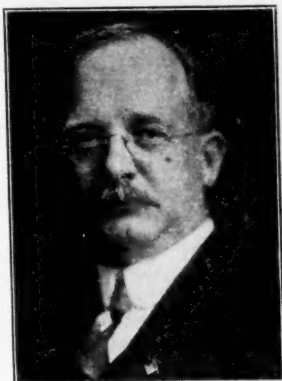
NEW DU PONT PINK PASTE

E. I. du Pont de Nemours & Co. announce Sulfanthrene Pink BG Paste, which shows excellent fastness to water, perspiration, acids, alkalis, rubbing, heat, moisture. It is very resistant to repeated launderings and is fast to chlorine, being unchanged by bleach.

Penetration, exhaust and evenness of dyeings are very good and, as the solubility is also good, this new color is recommended for all types of machines. It is grit free, works up without difficulty and prints easily, so that it can be considered a good color for fast color work for all sorts of pinks and rose shades. On account of the very low caustic concentration and the low temperatures required for dyeing, Sulfanthrene Pink BG Paste is especially suited for fast pinks on pure silk. It is also a good color for rayon.

DECORATION FOR CHEMISTS

Charles L. Parsons, secretary American Chemical Society, with offices in Mills Building, Washington, D. C., Harrison E. Howe, editor "Industrial and Engineering Chemistry," the society's publication, also



Charles L. Parsons

of Washington, and Atherton Seidell, member of American Chemical Society, have received the Order of Officer of the Crown of Italy from the King of Italy.

The decoration was conferred through the Italian ambassador, Prince Gelasio Caetani, who an-



Harrison E. Howe

nounced that the honor was conferred in recognition of the chemists' friendliness toward the Italian people and their activities in promoting international good will through the medium of chemistry.

Charles Lathrop Parsons was born in Marlboro, Mass., March 23, 1867, was graduated by Cornell University in 1888, and began his career as instructor in chemistry at New Hampshire College. He held several positions in Government departments. He was awarded the Nichols Medal in 1904. He was decorated by France with the Legion of Honor in 1925.

SALT CO. EARNS \$501,986

International Salt Co. and subsidiaries report for quarter ended Dec. 31, total income \$210,651, comparing with \$102,628 in same period 1925. Profit after fixed charges and sinking fund, but before federal taxes was \$108,028, against \$39,856. Stock outstanding amounts to 60,771 shares. Profit for 1926, compiled from quarterly reports, totaled \$501,986 after fixed charges and sinking fund, but before federal taxes, comparing with \$593,233 in 1925. Consolidated income account for quarter ended Dec. 31, compares as follows:

	1926	1925
Net after expenses.....	\$210,651	\$102,628
Fixed charges and sinking fund	102,628	62,771

Profit before federal tax \$108,028 \$39,857

Preliminary report for 1926, compiled from quarterly statements, compares as follows:

	1926	1925
Net after expenses.....	\$278,829	\$939,070
Fixed charges and sinking fund	376,843	345,837

Profit before federal tax \$501,986 \$593,233

MATHIESON WINS SUIT

Mathieson Alkali Works has been awarded a decision by Supreme Court of Appeals of Virginia against Virginia Banner Coal Corp., which sustains the major points of Mathieson's position. Suit was brought by the coal company on a contract which covered supply of coal to Mathieson's Virginia plant. It involved quality and price of coal and construction of the contract. Mathieson now has a counter claim against the coal company for alleged damages.

CYANAMID'S NEW BID

(Continued from Page 141)

only for a 50-year lease compared with 100-year lease asked by Henry Ford, it was said at the offices of American Cyanamid Co., 511 Fifth Ave., and at the end of that period the property will still belong to the Government. In the meantime the company will have paid the Government the entire \$83,500,000 which the Muscle Shoals development cost.

The fertilizer produced is to be sold at cost plus 8 per cent., officials said. The company has about \$13,000,000 capital stock outstanding. Officers W. B. Bell, president; K. F. Cooper, J. O. Hammitt, W. S. Landis, E. V. O'Daniel and C. M. Grant. It did a \$10,000,000 business last year. One of the largest stockholders is J. B. Duke estate.



A Partial List of Dow Products

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Magnesium Chloride
Caustic Soda
Sodium Sulphide
Carbon Tetrachloride
Carbon Bisulphide
Sulphur Chloride
Ethyl Bromide
Ethyl Chloride
Methyl Chloride
Phenol
Ferric Chloride
Bromides
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POTASH SALES IN 1926

Estimating that the German Potash Syndicate sold 600,000 metric quintals of potash (K₂O) during the month of December, the total sales for the year 1926 were about 1,600,000 quintals (or 160,000 metric tons) less than the sales of 1925. Sales up to Nov. 1, were 1,700,000 quintals less than those made during the first ten months of 1925, but this deficiency was reduced by a stronger demand for fertilizers during November and December. Potash sales since 1924 were:

	1924	1925	1926
Month	Metric Quintals	Metric Quintals	Metric Quintals
January ...	408,000	1,665,462	948,663
February ...	721,077	2,018,675	1,855,098
March	1,088,360	1,439,591	1,391,182
April	560,658	667,731	572,900
May	230,411	730,736	417,500
June	276,541	814,475	828,265
July	472,977	956,034	865,472
August	1,024,906	1,044,371	1,019,479
September ...	1,271,711	1,011,964	825,969
October ...	787,105	785,379	630,900
November ...	710,654	576,053	683,186
December ...	848,177	589,214	* 600,000
Total	8,420,597	12,249,685	10,639,114

* Estimated.

Stein, Hall & Co., New York, chemicals and dyes, filed notice at Albany, Jan. 23, of increase of stock from \$2,000,000 to \$3,000,000.

BETTER COPPER WELDING

Copper welding of maximum strength is obtained by using copper that has been deoxidized and a deoxidized welding rod, says Union Carbide and Carbon Research Laboratory. When copper is cast into the slabs or bars from which the commercial products are made, it contains from 0.01 to 0.08 per cent of oxygen in the form of cuprous oxide.

Deoxidized copper is not a standard product at present, the leading manufacturers of copper are ready to make it on orders for mill lots, which should specify "Copper for welding completely deoxidized with silicon."

Linseed oil rates, on carloads, from Minneapolis, Edgewater and Undercliff (N. J.) to points in Texas have been found not unreasonable by Interstate Commerce Commission.

Magner Bros.' paint factory, San Francisco, has been bought by E. L. Culver, formerly with Sherwin-Williams, E. A. Bradley, Los Angeles, and F. M. Brininstool, Los Angeles.

Personal and Personnel

James M. Keating, for the past sixteen years connected with General Chemical Co., has resigned, effective Feb. 1, to join Congoleum-Nairn, and J. E. Egleson, assistant to the vice-president in charge of engineering research and mines, and twenty-one years with General Chemical Co., has also resigned effective the same date to join Congoleum-Nairn. David F. Sirdevan, assistant works manager, for thirty years with General Chemical Co., has also resigned effective Feb. 1, but future plans have not been announced.

Charles A. Mace has been appointed secretary Synthetic Organic Chemical Manufacturers' Association. Mr. Mace is sales manager of Tower Mfg. Co., Newark. He is about 47 years old.

Bernard Baruch has become superintendent and technical director of Central Paint and Varnish Works, Brooklyn. He was formerly superintendent for H. B. Davis Co., Baltimore.

Horace E. Hall, formerly with Miner-Edgar Co., is now one of the sales staff of Kentucky Alcohol Corp. S. P. Gibson is also a new member of the sales staff of the same company.

George Henderson, of Brandram, Henderson, Ltd., paint manufacturers, has been chosen vice president of Montreal Board of Trade for 1927.

Fisk Rubber Co., Chicopee Falls, Mass., has added Haywood M. Taylor, formerly with E. R. Squibb and Sons, to its staff of research chemists.

Brewer & Co. are again at 100 John st., New York, from which the company moved to 99 John st., at the time of a fire recently.

President Coolidge has asked Congress for \$1,063,000 appropriation to construct additional helium plants.

Commercial Solvents Corp., Terre Haute, Ind., has engaged A. L. Carlsmith as chemist.

Manufacturing chemists have asked for a modification of the rate on returned acid tank cars.

[Markets & Prices]

SODIUM PRUSSATE ADVANCED TO 12c LB. BY MAKERS

Imported Material Unobtainable—Tin Salts Higher—Arsenic Firmer—Barium Chloride Easy—Benzene in Free Supply—Toluene Sold Up—Solvent Naphtha and Xylene Easy but Firm—Intermediates Firm but Dull—Chinawood Oil Higher—Cottonseed Oil Futures Very Active 3/4

Advanced	Declined
Arsenic, 3/4 c lb.	Cottonseed Oil, ref., 0.1 c lb.
Chinawood Oil, spot, bbls., 2 c lb.	Tin Crystals, 1/2 c lb.
Chinawood Oil, coast tanks, 1 3/4 c lb.	Tin Bichloride, 1/4 c lb.
Lard Oil, spot, edible prime, 3/4 c lb.	Tin Tetrachloride, 1/2 c lb.
Linseed Oil, spot, 0.1 c lb.	
Oil Foots, ship., 1/4 c lb.	
Peanut Oil, ref., spot, 1 c lb.	
Peanut Oil, crude, Coast, 1 3/4 c lb.	
Sodium Prussate, 1 c lb.	
Stearine Oleo, spot, 1 c lb.	
Tallow, city extra, 1/2 c lb.	

Developments in the industrial chemical market were few during the past week. Arsenic is apparently developing a firmer tone and prices are higher. Stocks of imported material on spot have been cleaned out, and consumption during the past year is reported in excess of production. Denatured alcohol has been soft in price with shading by 2c gal. on occasion. Barium chloride is quite competitive with importers lowering prices sharply when several lots arrive together. Domestic makers are meeting the prices of importers on practically all occasions. Ammonium chloride is moving in large volume but supplies are large and prices are unchanged.

Copper sulfate is pursuing a steady course. Glauber's salts and Epsom salts are selling at low levels. Acids generally are firm. Tin salts are lower with the metal.

Light oil distillates positions are absolutely unchanged. Benzene is plentiful and prices remain soft. Toluene is in very heavy demand and practically all factors report a sold-up condition at firm prices. Solvent naphtha and xylene are offered freely but prices are firm. Naphthalene is increasingly firm as the shipping season approaches next month. Phenol makers continue to offer freely but prices are apparently unchanged.

Intermediate makers report a dull market with movement satisfactory but lacking snap. Prices show very slight variation. The sharp price competition of the last quarter of last year has apparently disappeared and makers are rather optimistic about the current year.

Further advances in all positions of Chinawood oil is a feature of the continued improving oil market this week. Better consuming interest and Chinese internal troubles have served to increase the price here and on the Coast.

Otherwise the market was generally steady with minor price changes noted in several oils. Linseed is quoted higher on spot, but there is still a tendency to cut prices for business and inquiry are routine. Tallow is again held at higher levels and producers are having no trouble in getting the price asked. Fatty oils in general are well maintained. Steadiness is also noted in castor, coconut, crude corn, denatured olive, palm oils, and stearic acid and red oil. Factors in peanut oil have advanced the spot market sharply

on both crude and refined oils on the strength of higher replacements.

Refined cottonseed oil is fractionally lower at the moment. Last week witnessed a good volume of trading in futures with sales on Thursday of 42,000 bbls., exceeding any day since August, 1925. Crude oil is steady at the mills.

INDUSTRIAL CHEMICALS

Acid Acetic—All makers are in accord in prices which remain unchanged. Two more plants employing the direct extraction process are reported to be in production.

Acid Formic—Demand has slackened according to large importers although quotations are firm and unchanged.

Acids Mineral—Sulfuric, muriatic and nitric acids are moving freely at unchanged prices.

Acid Oxalic—Situation remains very tight with domestic makers offering goods subject to a few days delay.

Acid Phosphoric—Market is quiet but firm at 17c lb for U. S. P. syrupy.

Alcohol Denatured—Market has been soft in price and shading by 2c gal. has occurred on occasions

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but has not been general. The molasses market is unchanged in position.

Ammonia—Sharply competitive conditions continue.

Arsenic—Position is stronger due to consumption apparently being in excess of production and prices for domestic are higher at 3¼c lb, with imported material on spot all cleaned out and shipment prices being above domestic prices.

Barium Chloride—Market is quoted at \$61.00@\$63.00 ton with domestic makers meeting imported quotations.

Glycerin—Market is exceedingly dull with dynamite available at 26c lb and C. P. weak at 30c lb, and obtainable at 29c lb.

Methanol—Strong position continues but heavy imports are causing concern to makers.

Soda Ash and Caustic—Spot market for less carlot business is exceedingly competitive.

Sodium Prussiate—Imported material is unobtainable and domestic makers have advanced their quotations to a minimum of 12c lb at works.

Tin Salts—Makers have reduced prices following the lower metal market and quote crystals at 46c lb, bichloride at 19¼c lb, and tetrachloride at 39c lb.

**CRUDES AND
INTERMEDIATES**

Aniline Oil—Quiet and steady under good movement.

Benzene—Market remains soft at 23c gal. in tanks.

Cresylic Acid—Market is steady as to price. Exceedingly heavy shipments have been made from England.

Dimethylaniline—Demand is steady and of goodly volume.

Solvent Naphtha—Supplies are free but prices are firm and unchanged.

Toluene—Market is very firm in price due to makers being sold far ahead.

Xylene—Freely offered but firm in price due to the small production.

OILS AND FATS

Castor Oil—There has been no change in the makers price since last reviewed and business continues in good volume at 14c@14¼c lb for No. 1 in bbls.; 15c lb for No. 1 in cases and 13½c@14c lb for No. 3.

Chinawood Oil—With consumers definitely buying in better volume and the unsettlement of the Chinese market, sellers here are having no trouble in getting 15¼c@16c lb for

spot bbls. Tanks on the Coast are at 15½c lb for Jan. shipment; 15c lb for Feb.-March shipment and 13c lb for April-June shipment.

Coconut Oil—Has a firmer tone in all positions with the tanks on the Coast particularly so. Sales of Manila oil on the Coast were made at 8½c@8¾c lb early this week. Spot is unchanged at 8½c@8¾c lb.

Cottonseed Oil—Crude oil is steady and unchanged at 7c lb. Refined oil was very active last week, on Thursday recording sales of 42,000 bbls., the largest daily trade since August 1925. However spot oil is fractionally lower this week at 8.50c@8.60c lb.

Greases—No change has taken place in the market for greases and a fair volume of business is passing at 10¼c lb for choice white; house at 6¾c lb; brown at 6¼c lb and yellow at 6½c lb.

Lard Oil—Edible prime oil is higher this week at 15½c lb and in good demand. Other grades are unchanged at 10¾c lb for extra No. 1; 10½c lb for No. 1 and 10c lb for No. 2.

Linseed Oil—Crushers have again advanced their spot price fractionally to 10.9c lb in carloads for raw oil, although this price is subject to shading. Primary markets are steady and the consuming inquiry here is light at the moment.

Neatsfoot Oil—Leading factors quote unchanged prices this week and some business is passing hands at 16¾c lb for 20 and CP; pure at 12¾c lb; extra at 10¼c lb and No. 1 at 10½c lb.

Oleo Oil—Rather sharp advances are noted in the spot quotation for all grades. Demand is good and sales are being made at 10¾c lb for No. 1; 9¼c lb for No. 2 and 9c lb for No. 3.

Olive Oil—Denatured oil continues its tight position here and is sold at \$1.40@\$1.45 gal. as to quantity. New crop offerings are looked for shortly and prices will undoubtedly decline. Foots are higher this week for shipment at 8¼c lb.

Palm Oil—Locally the market is rather quiet and in unchanged at 8½c@8¾c lb. Niger is named higher at 7½c in some directions and moving in fair volume.

Peanut Oil—Sharply higher on spot at 15½c@16c lb and stocks are in limited supply to care for an improved inquiry. Crude oil in tanks at the mills is quoted at 10c lb.

Sardine Oil—Sales on the Coast are made at 43c@44c gal. as the fishing season continues.

Soya Bean Oil—Unchanged in all directions and rather quiet this week. Tanks on the Coast are well maintained at their recent advance to $9\frac{3}{4}c@9\frac{1}{2}c$ lb.

Stearine Oleo—Higher this week and consumers are taking parcels at $9\frac{3}{4}c$ lb in this territory.

Tallow—City extra continues to advance on spot and factors are experiencing a good demand at new levels at $7\frac{5}{8}c@7\frac{7}{8}c$ lb.

OLIVE OIL PRICES

Lower production of olive oil has caused prices of most olive oils to rise, despite improvement in value of the lira. The demand by the home market is strong, and some foreign buyers are renewing their orders as they are satisfied with the quality delivered so far.

During the first eight months of 1926, Italy sent 3,295 tons edible olive oil to the United States, against 8,326 tons in the same months of 1925, and 6,312 tons in 1924; 28 tons to England, against 484 tons in 1925, and 481 tons in 1924; 45 tons to France, against 1,792 tons in 1925, and 831 tons in 1924; $169\frac{1}{2}$ tons to Switzerland, against 337 $\frac{1}{2}$ tons in 1925, and 376 $\frac{1}{2}$ tons in 1924.

Dow Chemical Co. will increase immediately its production of indigo from 50 to 100 per cent over past capacity. This is in line with its belief that increased production will make possible lower costs and lead to an increased demand.

American Cellulose & Chemical Co., Amcelle, near Cumberland, Md., will ask bids in 60 to 90 days for addition to its rayon mill and chemical division, to be one-story 150 x 250 ft., estimated to cost \$200,000, with equipment.

Robert H. Davis, editor Munsey publications, spoke at Chemists Club, Feb. 2, on his recent trip around the world and his interviews with noted men.

Mutual Chemical Co., Jersey City, N. J., has plans for erecting addition to its plant, reported to cost \$25,000, with equipment.

London advices by radio reported mercury firmer, pitch easier and turpentine lower on Jan. 20.

Mathieson Alkali Works, Niagara Falls, will build an addition, 2-story 50x100, costing \$50,000.

FAVOR CYANAMID'S BID

American Cyanamid Co.'s bid for Muscle Shoals is favored by officials of American Farm Bureau Federation who called upon President Coolidge and solicited his support for the plan to lease and operate Muscle Shoals for the manufacture of fertilizer.

Imports and Exports

Beginning this issue, CHEMICAL MARKETS gives imports at New York up to Monday morning, thus including the heavy arrivals over the week-end. Beginning next week, complete exports from New York will be given, naming the point of destination.

Certified checks totaling \$1,000,000 were laid before the House Military Committee, Jan. 25 by representatives of Farmers' Federated Fertilizer Corp. as evidence that its offer for Muscle Shoals was in good faith. The checks were presented by C. Bascom Slemph, former secretary to President Coolidge and now associated with the corporation, to show the group had sufficient working capital to start operations on the power and nitrate plant.

Prices of gums, glues and starches have been reduced in Italy. Demand for arabic by calico printers and finishers is still very fair, and this product is preferred to cheaper substitutes such as dextrin, British gum, gum Senegal, etc. The requests for gum arabic in other industries are small, and, although holders make repeated offers, little business is done.

National Lead Co. has declared a quarterly dividend of $1\frac{3}{4}$ per cent on preferred payable March 15 to stock of record Feb. 18.

Lake Champlain Pulp and Paper Corp., Plattsburg, N. Y., has filed its appraisal report showing assets of \$88,747.

Sherwin-Williams Co. has declared an extra dividend of 25 cents, payable Feb. 15 to stockholders of record Jan. 31.

Procter & Gamble have declared a quarterly dividend of \$1.75, payable on stock of record Jan. 25.

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Low and Medium Grades Register Sharp Recovery on Better Tone of Market—Turpentine Recovers Partially—Carnauba Lower on Spot Following Receipt of Stocks—Japan Continues Easy—Dried Blood Higher and Scarce—Red Lead and Litharge Reduced

Advanced		
Albumen, Egg edible, 3c lb.	Sumac, ground, ship., \$2.00 ton.	Rosin, K, 50c 280 lbs.
Blood, dried, N. Y., 25c unit.	Rosin, P, D, \$1.00 280 lbs.	Rosin, M, 40c 280 lbs.
Blood, dried, Chicago, 10c unit.	Rosin, E, F, \$1.15 280 lbs.	Turpentine, spot, 3c gal.
Divi Divi, ship., \$5.00 ton.	Rosin, G, H, \$1.20 280 lbs.	Vermilion, English, spot, 5c lb.
Mangrove Bark, ship., \$2.00 ton.	Rosin, I, \$1.10 280 lbs.	
Declined		
Carnauba Wax, No. 1 yellow, 18c lb.	Rosin, WW, 5c 280 lbs.	Lead, red, 1/2c lb.
Carnauba Wax, No. 2 regular, 3c lb.	Sodium Nitrate, spot, 2c 100 lbs.	Litharge, 1/2c lb.
Japan Wax, spot, 4c lb.	Sulfate of Ammonia, resale, 5c 100 lbs.	Rosin, WG, 10c 280 lbs.

Sharp advances in common and medium grades of rosin and a decline in spot carnauba wax were features of the raw material group last week. Rosin advanced both on spot and at the primary markets on an improved demand and the diminishing receipts from the source. Turpentine is also slightly improved, although the market has not fully recovered from the trouble in London yet. There have been some parcels of carnauba received here aside from contract deliveries and this has served to reduce the market which has been bare of stocks for some time. The position is still abnormally high.

Tanning materials continue firm and higher in most cases. Valonia bark is reported unobtainable in any

quarter and divi divi and mangrove show healthy advances. Political troubles in China has served to brace the spot market for edible egg albumen and the price has advanced. Fertilizers were more active last week and the activity was accompanied by price changes. Blood is very scarce and the New York and Chicago markets are higher. Tankage is moving to the mixers in a larger volume. Nitrate of soda is still routine and sales are being made at 2c 100 lb under the scheduled market. Resale parcels of sulfate of ammonia were sold last week at reduced prices. On lower raw material costs red lead and litharge have been reduced by the makers.

Albumen—Advances in the replacement price for edible egg were reflected in the spot market which is now named at 84c@86c lb. Sales continue in good volume. Blood albumen is reported higher in one direction, but parcels are still available on spot at 45c@50c lb.

Ammonium Sulfate—Sales are being made of resale parcels at \$2.45 per 100 lbs. delivered Northern ports. Consumers taking good sized lots at these figures.

Blood—All markets have taken on a firm aspect and advances are noted on New York and Chicago parcels. Sales were made this week at \$4.00 and \$4.60 unit respectively at these points. The demand for feeding purposes is good and stocks are very limited in all quarters.

Bone Meal—Neither domestic or imported meal have shown any changes over the week.

Carnauba Wax—Has finally reacted from its firm position of the past two months and is now obtainable at 70c@75c lb for No. 1 yellow and 65c@67c lb for No. 2 regular. Shipments other than on contract are being received here in better volume and the tone of the market is easier, but by no means weak.

Divi Divi—Shipment prices coming in are considerably higher this week and shipment parcels are offered at \$47.00@\$48.00 ton. Tan-

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ners are showing a better interest in the market.

Fish Scrap—Now quoted nominally with no stocks available until the new season.

Japan Wax—As expected the spot market is easing off to conform with arrivals and spot wax is now sold at 25c@26c lb. January arrivals are heard at 22c lb with shipments fractionally lower.

Egg Yolk—Now quoted nominally on spot with no offerings and no immediate relief expected.

Lead—Makers announced a reduction in red lead and litharge last week to 10¼c lb and 10¼c lb respectively. Lower raw material costs made the reduction possible. Consuming demand at the moment is only fair.

Mangrove Bark—Higher for shipment and in some demand from consumers here. Spot sales were made last week at \$48.00 ton.

Myrobalans—Have shown little change worthy of comment. J 2's for shipment have advanced a bit to \$31.00 ton.

Rosins—Since last reported common and medium grades of rosin have advanced sharply on spot and at Savannah. A good demand and diminishing receipts are responsible for the rise. Current spot quotations are: B, D, \$13.00; E, \$13.15; F, \$13.20; G, \$13.25; H, \$13.30; I, \$13.35; K, \$14.80; M, \$15.00; N, \$15.85; WG, \$16.60; WW, \$18.55.

Sodium Nitrate—Importers are taking orders in a small way at 2c 100 lbs., under the schedule price for all positions. Spot sales were made late last week at \$2.61 100 lbs. The situation is unchanged from its routine position.

Toners—Makers are experiencing a very good demand for all toners and there is no evidence of price shading for business.

Turpentine—The local market has rallied a bit from its easy position of last week and is now quoted at 81c @85c gal. with some interest. Primary markets are steady.

(Special to CHEMICAL MARKETS)

Savannah, Ga., Jan. 24—Turpentine closed last week firm at 75c gal. with sales of 23 bbls. on Saturday at 77c gal., but it was not deemed advisable to advance the official price on this sale. The present price shows an advance of 3c gal. from early in the week. With most of the buyers awaiting developments from the London market as to the disposition of the distressed parcels there, dealers are none too anxious to take on supplies. It is believed here that the Savannah and Jacksonville markets will receive suffi-

cient business to maintain the present market. Receipts last week were 533 bbls.; sales reported 428 bbls.; shipments, 2018 bbls.; stocks, 10,267 bbls.

Rosins showed appreciable advance in the medium and common grades over last week. The market closed firm with increases on M grade and below from 45c to about \$1.35. The strong demand picked up volume from day to day with Saturdays market closing after sales of 372 bbls. to one buyer. There is a very good demand for rosin and with only hopes for very small receipts it is probable that present prices will be maintained at least. Receipts last week were 3136 bbls.; sales reported, 1414 bbls.; shipments,

13,450 bbls.; stocks, 75,217 bbls. Current quotations are: B, \$11.50; D, \$11.50; E, F, G, \$11.65; H, I, \$11.75; K, \$13.30; M, \$13.50; N, \$14.25; WG, \$15.00; WW, \$16.75.

Jacksonville, Fla., Jan. 22—Turpentine closed firm 75¼c gal. on sales of 94 bbls. Rosins were posted as steady with 504 bbls. carried over refusing bids. Stocks today are turpentine, 32,073 bbls. and rosin, 89,160 bbls.

Vermilion—Contingent on the higher cost of mercury the spot price of English vermilion has advanced to \$1.60@\$1.65 lb. Buyers are taking offerings in good volume. Domestic makers have not advanced to this level yet.

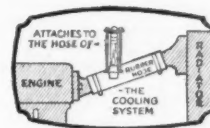
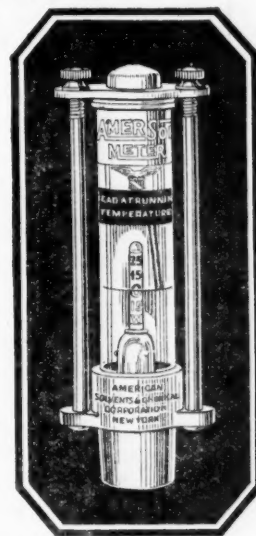
an ANNOUNCEMENT of unusual interest to motorists using ALCOHOL as an anti-freeze The AMER SOL METER

PREVIOUSLY, there was no simple way of determining whether your car's cooling system contained a sufficient quantity of alcohol. As one of the country's largest producers of alcohol, it was clear to us that something must be done to correct this unfortunate and harmful situation. The Amersol Meter is the result.

Motorists are now offered adequate protection. This ingenious meter takes the guesswork out of the use of alcohol as an anti-freeze. It reacts to the amount of alcohol in the solution in the cooling system, displaying a warning when the alcohol content drops below safety.

Advertising, national in scope, will aid in attaining the popularity this meter deserves. As it is protected by patents, the Amersol Meter can only be secured through us.

The Amersol Meter will be of commercial interest to those who distribute alcohol for anti-freeze, as well as to everyone who drives a car. All anti-freeze distributors should send the coupon NOW for details of a Special Proposition. Motorists in general are also invited to send for detailed information.



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☐ Send me the complete details of your Special Proposition to distributors of alcohol anti-freeze.

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Solvay of Belgium Offers \$15,000,000 Stock

Incorporates American Investment Company in Delaware—Solvay Notes Will Yield More Than 5 Per Cent, and are Secured by 359,000 Shares Common Stock of Allied Chemical and Dye Corp., Valued at \$48,000,000—New York Men Among the Officers

Stocks offerings by Solvay & Co. of Belgium disclose incorporation of the company in Delaware as an investment trust. Stock was put on the market by Lee, Higginson & Co., White, Weld & Co., Brown Brothers & Co., Union Trust Co., Pittsburgh and Illinois Merchants Trust Co., Chicago, and comprises a new issue of \$15,000,000 Solvay American Investment Corp. 15-year 5 per cent gold notes, Series A.

The Solvay notes, which are priced at 99¾, to yield more than 5 per cent, will be secured by 359,000 shares of no par value common stock of Allied Chemical and Dye Corp., out of 2,178,109 shares outstanding. At present prices the market valuation of the stock securing the note issue is more than \$48,000,000. Proceeds will provide funds for the acquisition of somewhat less than one-quarter of the total assets to be owned by the new corporation.

Under the terms of its charter

Solvay American Investment Corp. may acquire, hold and sell securities, either in the companies in which it will not have investments or other companies, Governments or municipalities, and may issue its own securities to acquire such investments. The capitalization will comprise the \$15,000,000 notes now being offered, which constitute its only funded debt, and 300,000 shares of no par value common stock.

Officers and directors of the company are James H. Perkins, Farmers Loan and Trust Co., president; Armand Solvay, vice-president; J. Donald Duncan, secretary and treasurer; Frederick W. Allen of Lee, Higginson & Co., Gordon Auchincloss of Marshall & Auchincloss, John A. Gade of White, Weld & Co., Emmanuel Janssen, director of Solvay & Co., and W. H. Hallam Tuck.


AMERICAN GLUE'S POSITION

American Glue Co. stockholders have received President Lyman's report in which he says:

"During the year we have been obliged to pay for raw materials entering into the manufacture of glue and gelatine a price out of line with the prices obtainable for the finished product, but I am glad to report that this condition does not now exist. All of this, however, has had a tendency to affect earnings compared with the previous year, although not to any marked extent.

"Sales of the company during the past year have shown an increase over the previous year in nearly all items and prospects for the coming year are extremely propitious as to value of sales and profits to be derived therefrom. The Federal tax questions are progressing to a point where it is our opinion all unsettled matters will be adjusted during the coming year."

Officers and directors were re-elected. Debt of the company represented by notes payable and debenture notes outstanding show a slight increase. Cash on deposit somewhat greater. Commercial grease, an important and valuable by-product obtained from the manufacture of glue and gelatine, has been depressed in value the latter part of the year.



Quality —is economy

THERE are several phases of economy. A sure method of achieving economy in textile dyeings is via the use of high standard dyestuffs.

G D C Dyestuffs can be specified with security. Every scientific resource is brought to bear on their production. The result—a range of quality colors that we take pride in offering, and that manufacturers find complete satisfaction in using.

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GENERAL DYESTUFF CORPORATION

Hamburg Chemical Firms in Distress

Manufacturers Who Formerly Exported Through Agents are Now Appointing Sales Forces in Foreign Countries—Business in Heavy Chemicals Extremely Dull—Little Trade During December—Prices Unchanged—Quotations in Pound Sterling and In Dollars

(Special to CHEMICAL MARKETS)

Hamburg, Germany, Jan. 3—Heavy chemicals for home consumption and for export continue dull. General conditions are good, however, in spite of failures owing to money stringency early in 1926. The position of some exporters is difficult, especially firms which had been specializing in heavy chemicals and must fight for their existence since a number of factories which formerly exported through those firms, have joined trusts and most of these trusts have appointed their own selling agents in important countries. Changes in prices are small and are quoted in pound sterling per 1,000 kilos, and in dollars per 100 kilos f.o.b. Hamburg:

Caustic Potash, \$12.70; Caustic Soda 125-128°, £12 17s 6d; Sulfate of Alumina, 14-15%, £5; Sulfate of Alumina 17-18%, £6 12s 6d; Hypo-sulfite of Soda, £6 13s; Barium Carbonate, \$2.85; Barium Chloride, \$3.75; Epsom Salts commercial in bags, £1 14s; Borax powdered or cryst., £20; Potassium Bromide, \$67; Sodium Bromide, \$70; Calcium Chloride 70-75% fused, £3 5s; Zinc Chloride, £20; Glaubersalts small cryst., \$1; Potash Alum, £6 10s; Chlorate of Potash, \$11.15; Blue Vitriol, £20 10s; Glycerin, double dest. 28°, \$52; Oxalic Acid, £23 10s; Aniline Oil, £63; Naphthaline Balls, £13 15s.

Wesson Oil & Snowdrift Co., Inc., New Orleans, has declared a quarterly dividend of \$4 on common stock, payable March 30 to stock of record March 15. Common stockholders are offered the right to subscribe to 30,000 additional shares of common at \$50 a share in the ratio of one new share for nine now held. Preferred stockholders have been offered the right to subscribe to 15,000 additional shares of preferred at \$95 a share in the ratio of one new share for nine now held.

An involuntary petition in bankruptcy has been filed in United States District Court, San Francisco, against California Magnesite Co. by Carl Roschold, E. W. Harper and Hamlin-Walker Corp.

TETRAETHYL VICTIMS

Six victims of tetra-ethyl gas poisoning at Baywater (N. J.) refinery of Standard Oil Co. of New Jersey, in October, 1924, obtained a settlement this week for \$350,000. Other suits for about \$1,000,000 are pending. About thirty-five recovered. Owing to the death of five men new Government regulations were enforced for handling the gas, which is used to prevent "knocking" in motors.

The settlement was made by Charles F. Brown, of Newark, N. J., who represented six plaintiffs and filed suits in Elizabeth, N. J. last July. His clients were among those who recovered, but claimed to have spent large sums for medical treatment and swore that they had not been able to work since they were overcome.

Ammoniacal gas liquor is assessed at 20 per cent ad valorem under paragraph 1459, Tariff Act of 1922.



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Bicarbonate of Soda**

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Coast to Coast Producing Points



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Import Manifests

IMPORTS AT NEW YORK Jan. 16 to 20

ACIDS—Chlorotoluidin Sulphonic, 15 cks., Grasse Dye stuff Corp., Rotterdam; **Cresylic**, 20 drs., H. S. Far eight, Liverpool; **Formic**, 84 bottles, A. Klipstein & Co., Hamburg; 227 carboys, Order, Hamburg; 70 balloons, R. W. Greeff & Co., Rotterdam; **Stearic**, 63 bgs., C. R. Spence & Co., Rotterdam; **Tartaric**, 220 kgs., Superfos Co., Genoa; 300 kgs., Order, Rotterdam; 250 bbls., Order, Rotterdam.

ALCOHOL—Denatured, 25 bbls., C. Esteve, San Juan; **Methyl**, 751 drs., Kuttroff, Pickhardt Co., Rotterdam.

AMMONIUM—Carbonate, 15 cs., State Bank, Liverpool; **Chloride**, 891 cks., Order, Rotterdam; **Muriate**, 100 cks., Kuttroff, Pickhardt & Co., Rotterdam; **Suph.** **Cyanide**, 5 cks., Mallinckrodt Chemical Works, Rotterdam.

ANTIMONY—Ground, 250 cs., Order, Shanghai; **Metal** 500 cs., Wah Chang Trading Corp., Shanghai; **Oxide**, 152 bgs., W. R. Grace & Co., Antofagasta; **Oxide White**, 150 bgs., Anglo-American Trust Co., Shanghai; **Regulus**, 259 cs., Nat'l Bank of Commerce, Shanghai; 500 cs., W. R. Grace & Co., Shanghai; 500 cs., Shanghai Commercial & Savings Bank, Shanghai; 250 cs., D. L. Moss & Co., Shanghai; 250 cs., Order, Shanghai; **Sulphides**, 222 bgs., W. R. Grace & Co., Antofagasta.

BARYTES—1,000,000 k's, Ore & Chemical Corp., Rotterdam.

BUTYL—Acetate, 149 drs., Kuttroff, Pickhardt & Co., Rotterdam.

CARBON—71 cs., H. Reisinger, Bremen.

CHALK—1,000 tons, Baring Bros. & Co., London; 500 tons, Taintor Trdg. Co., Southampton; 1,250 bgs., E. L. Bullock, Antwerp; 1,400 bgs., J. H. Nicholas & Co., Antwerp; 1,250 bgs., Chemical Color Co., Antwerp; 500 tons Taintor Trdg. Co., Southampton; 1,920 bgs., Order, Antwerp; 1,600 bgs., J. V. Lyons & Sons, London; **Precipitated**, 200 bgs., H. J. Baker & Bros., Bristol; 550,000 kilos, Taintor Trdg. Co., Dunkirk.

CHEMICAL COMPOUND—25 cs., Happel & McAcay, Trieste.

CHILE—24 bgs., Royal Bank of Canada, Ciudad Bolivar.

CHROMIUM—Oxide, 20 kgs., Order, Glasgow.

CLAY—2 kgs., A. F. Rolofson, Gothenburg; 826 bgs., United Clay Mines Corp., Bristol; **China**, 30 cks., C. T. Wilson & Co., Bristol.

COPRA—2,886 bgs., Frank in Baker Co., Manila; 11 bgs., Franklin Baker Co., Bristol; 1,342 bgs., United Fruit Co., Puerto Castilla.

COLORS—150 cs., Order, Copenhagen; 5 cs., Henschel, Naevø Co., Bremen; 1 cs., L. Uhlfelder & Co., Bremen; 1 box, F. Kraemer & Co., Liverpool; **A'zarine**, 84 cks., General Dyestuff Corp., Rotterdam; 1 cs., General Dyestuff Corp., Rotterdam; 80 cks., Grasse Dye stuff Corp., Rotterdam; **Aniline**, 5 bbls., Van Doorn, Rotterdam; **Bronze**, 16 cs., B. F. Drakenfield & Co., Bremen; 10 cs., Hensel, Bruckmann & Lorbacher, Bremen; 24 cs., L. Uhlfelder & Co., Rotterdam; 170 cs., General Dyestuff Corp., Rotterdam; 71 cks., General Dyestuff Corp., Rotterdam; **Coal Tar**, 31 cks., General Dyestuff Corp., Rotterdam; **Earth**, 7 cks., C. J. Osborn & Co., Rotterdam; 37 cks., C. K. Williams & Co., Rotterdam; **Intermediate**, 20 cks., General Dyestuff Corp., Rotterdam.

CYANIDE—0 cs., Order, London; 120 d.s., Order, London.

DEXTRINE—50 bgs., Farmers Loan & Trust Co., Copenhagen; 200 bgs., Brown Bros. & Co., Rotterdam.

EARTH—Fuller's, 870 bgs., L. Sa'mon & Bro., London; **Red**, 79 cks., Reichard, Coulston, Inc., Bristol; 50 bbls., G. Z. Collins & Co., Bristol.

EXTRACT—Codd liver, 5 drs., R. F. Downing & Co., Copenhagen; **Mat** 20 cs., Order, Copenhagen; **Rennet**, 5 bbls., Freedman & Slater, Copenhagen; **Vegetable**, 10 cks., Colonial Merchants Co., Genoa.

FERRO—Chrome, 200 cs., International Ores & Metal Selling Corp., Genoa; **Phosphor**,

410 cs., C. W. Leavitt & Co., Dunkirk.

GELATINE—60 bgs., Chemical Nat'l Bank, Antwerp; 5 cs., F. L. Kraemer & Co., Bremen; 1 cs., Order, Bremen; 50 cs., American Express Co., Rotterdam; **Powdered**, 110 bgs., H. A. Sinclair, Rotterdam; 46 bbls., H. A. Sinclair, Rotterdam; 68 kgs., H. A. Sinclair, Rotterdam; 202 bgs., Chemical Nat'l Bank, Marseilles.

GLUE—20 bgs., Gallagher & Ascher, Liverpool.

GLYCERINE—60 drs., Order, Dunkirk; 70 drs., Order, Hamburg; 129 cs., Order, Hamburg; 60 drs., Procter & Gamble, Dunkirk; 10 drs., Kress & Owen, Rotterdam.

GUM—226 bbls., W. Wrigley, Jr., & Co., Puerto Colombia; 4 cs., W. Wrigley, Jr., Co., Singapore; **Copal**, 76 bbls., Grace Nat'l Bank, Macassar; 100 pgs., Van Doorn, Rotterdam; 2 bgs., G. H. Lincks, Antwerp; 2 bgs., W. H. Schell, Antwerp; 2 bgs., S. Winterbourne & Co., Antwerp; 700 bgs., Brown Bros. & Co., Antwerp; 100 bgs., A. Klipstein & Co., Singapore; 50 cs., L. C. Gillespie & Sons, Singapore; 4 bgs., Chemical Nat'l Bank, Singapore; 50 cs., Chemical Nat'l Bank, Singapore; **Damar**, 300 cs., Bank of Manhattan Co., Batavia; 100 cs., Kidder, Peabody Acceptance Corp., Batavia; 200 cs., Irving Bank & Columbia Trust Co., Batavia; 50 cs., S. Winterbourne & Co., Manila; 64 bgs., L. C. Gillespie & Co., Singapore; 50 bgs., Baring Bros. & Co., Singapore; 50 cs., Baring Bros. & Co., Singapore; 50 cs., L. C. Gillespie & Co., Singapore; 50 cs., Chemical Nat'l Bank, Singapore; 50 cs., Order, Singapore; **E'emi**, 150 cs., Corn Exchange Bank, Manila; **Ester**, 70 cks., A. C. Hern, Rotterdam; **Hashab**, 100 bgs., T. M. Duche Sons, Port Sudan; 100 bgs., Nat'l City Bank, Port Sudan; 100 bgs., Brown Bros. & Co., Port Sudan; 150 bgs., J. Munroe & Co., Port Sudan; 205 bgs., Order, Port Sudan; **Tragacanth**, 5 bgs., B. L. Holders, Southampton; 7 cs., Mohrman, London.

IRON—Oxide, 0 cks., J. A. McNulty, Dundee; 12 cks., E. M. & F. Waldo, Inc., Liverpool; 10 cks., E. L. Butcher, Ma'aga; 40 cks., Reichard, Coulston, Inc., Ma'aga; 120 bbls., C. J. Osborn Co., Malaga; 40 bbls., Wishnick, Tumpeer, Malaga.

MAGNESIUM—Chloride, 133 drs., National Bank of Commerce Hamburg; 295 drs., Brown Bros. & Co., Hamburg; 37 drs., Order, Hamburg.

MANGANESE—4 sks., C. Rand, Santiago; **Metal**, 40 b.s., De Courcy Browne, Inc., Liverpool.

MANURE—55 bgs., W. E. Marshall & Co., Dundee; 25 bgs., W. M. Hunt & Co., Dundee; 20 drs., Order, Liverpool.

OILS—18 cs., B. L. Holders, Port Said; 42 pgs., Columbo Co., Palermo; **Anthracene**, 1 ck., Assoc. Meta's & Minera's Co., Hamburg; **Coconut**, 132 tons, Philippine Rep. Co., Manila; 689 tons, Copra Milling Co., Manila; **Cod**, 200 cks., R. Badcock & Co., St. Johns; 10 cs., H. Reising, Rotterdam; 80 cks., Order, St. Johns; **Cod liver**, 2 drs., Mead, Johnson & Co., St. Johns; 100 bbls., E. R. Squibb & Son, St. Johns; 40 bbls., Order, Liverpool; **Creote**, 12 cks., Assoc. Meta's & Minera's Hamburg; **Fuse**, 19 drs., Maas, Waldstein & Co., Antwerp; 3 bbls., Order, Palermo; **Olive**, 50 cks., Leghorn Trdg. Co., Marseilles; 100 drs., Anglo Comm. Exchange Bank; 18 cs., J. A. Nattie'o, Palermo; 60 drs., Lockwood, Brackett Co., Seville; 30 cs., Genoa Shipping Co., Palermo; 25 cts., F. Martin, Seville; 21 bbls., Order, Palermo; 140 drs., Eysee Olive Oil Co., Seville; 143 cs., Oceano Shipping Co., Palermo; 1,650 cs., Briones & Co., Seville; 108 cs., Angiolillo Bros., Bari; 420 drs., Briones & Co., 31 bbls., G. Maggio, Bari, Seville; 50 bbls., Briones & Co., 50 bbls., Lozito, Bari, Seville; 135 cs., Munson S. S. Line, Seville; 59 bbls., A. Cutrone, Bari; 150 cs., American & Cuban Lines, 55 bbls., D. Turso, Bari; 50 drs., Bowery & East River Nat'l Bank, Seville; 30 bbls., V. Visceglie, Bari; 200 cs., American Ex-

Heavy Chemicals and Other Industrial Raw Materials.

change, Seville; 50 cs., M. Palombello, Bari; 50 drs., American Exchange Bk., Seville; 50 cs., P. Pasculli, Bari; 200 cs., Lekas & Drivas, Seville; 50 cs., V. Quartaro, Genoa; 250 cs., Mascaglies Bros., Seville; 100 cs., F. Pepe, Genoa; 100 cs., J. C. Deredon, Seville; 350 cs., L. Gando te & Co., Genoa; 300 cs., General Olive Oil Corp., Seville; 310 cs., J. Antognoli & Co., Genoa; 75 cs., Anglo So. American Trust Co., Seville; 30 cs., E. E. Marks & Co., Marseilles; 45 drs., Anglo So. American Trust Co., Seville; 800 cs., H. J. Herns & Co., Seville; 18 drs., H. J. Herns & Co., Seville **Olive Sulphur** 100 bbls., Leghorn Trdg. Co., Messina; 700 bbls., Leghorn Trdg. Co., Bari; 95 bbls., Sergeant Co., Catania; **Olive Sulphur Green**, 500 bbls., Nat'l City Bank; **Palm**, 757 tons, African & Eastern Trdg. Co., Calabar; 165 cks., W. A. Leaman, Abonema; 160 cks., African & Eastern Trdg. Co., Harcourt; **Peanut**, 100 cs., Sun Kwong On Co., Hongkong; 60 cs., Ying Chong, Hongkong; **Rape**, 22 bbls., Welch, Holme & Clark, Rotterdam; **Sanctuary**, 5 cs., Hensel, Bruckman & Lorbacher, Rotterdam; **Sesame**, 5 cs., B. L. Holders, Port Said; **Sperm**, 50 bbls., Order, Glasgow; **W. od**, 250 drs., Order, Shanghai.

PHOSPHOR—Ch'oride, 35 cks., Kuttroff, Pickhardt & Co., Hamburg.

PLUMBAGO—666 bgs., Nat'l City Bank, Singapore; 99 bbls., Order, Singapore.

POTASSIUM—149 cks., Parsons & Petit, Hamburg; **Prussiate**, 18 kgs., C. Tennant, Liverpool; **Muriate**, 1,168 bgs., Potash Import Co. of America, Bremerhaven; **Sulphate**, 137 bgs., Potash Import Co. of America, Bremerhaven.

PUMICE—Lump, 5,553 bgs., R. J. Waddell & Co., Canneto; 4,728 bgs., J. H. Rhodes & Co., Canneto; 3 cks., J. H. Rhodes & Co., Canneto; 50 bgs., Order, Canneto; 4 cks., Order, Canneto; **Powdered**, 318 bgs., J. H. Rhodes & Co., Canneto; 50 bgs., Order, Canneto; 5 cks., Order, Canneto; **Powdered**, 318 bgs., J. H. Rhodes & Co., Canneto; 655 bgs., C. B. Chrystal & Co., Canneto; 2,357 bgs., Whittaker, Clark & Daniels, Canneto.

ROTTENSTONE—Lump, 12 cks., C. B. Chrystal, Liverpool.

SAGO FLOUR—2,240 bgs., Order, Singapore.

SAL AMMONIAC—360 cks., Superfos Co., Rotterdam; 89 cks., Order, Hamburg.

SHELLAC—1,500 bgs., Order, Port Said; 400 bgs., Order, Rotterdam; **Sticlae**, 168 bgs., I. R. Boddy & Co., Singapore.

SOAP—9 cs., Yardley & Co., Southampton; 7 cs., Order, Marseilles; 769 bgs., J. D. Nordlinger, Inc., Marseilles; 60 bxs., Leghorn Trdg. Co., Marseilles; 200 cs., Anglo So. American Trust Co.

SODIUM—Cassia, 70 bbls., Van Doorn, Rotterdam; **Cyanide**, 1,000 cs., E. R. Spence & Co., Hamburg; **Cyanide Ferre**, 45 cs., Dretzen Co., Rotterdam; **Nitrate**, 3,985 bgs., W. R. Grace & Co., Iquique; 6,491 bgs., A. Gibbs & Co., Antofagasta; 3,248 bgs., Anglo South American Trust Co., Antofagasta; 6,501 bgs., Wessel, Duva' Co., Antofagasta; **Phosphate**, 134 bbls., A. Klipstein & Co., Antwerp; **Prussiate**, 39 cks., A. Klipstein & Co., Rotterdam; 76 cks., Order, Rotterdam; **Sulphate**, 250 bbls., Van Doorn, Rotterdam; **Pyrosulphite**, 250 drs., Order, Rotterdam; **Sulphida**, 120 drs., A. Klipstein & Co., Rotterdam; 50 drs., A. Klipstein & Co., Rotterdam.

STARCH—250 bgs., Farmers Loan & Trust Co., Copenhagen.

SULPHITE—131 bbls., Order, Hamburg.

SUMAC—Ground, 700 bgs., Order, Palermo; 40 bgs., Order, Palermo.

TALC—Powdered, 13 bgs., Yardley & Co., Southampton.

TAPIOCA FLOUR—510 bgs., A. S. Welds Sons, Sourabaya.

TURPENTINE—66 d.s., G. Wil's & Sons, Shanghai.

UMBER—33 cks., Order, Trieste.

WAX—2 bgs., Royal Bank of Canada Sanchez; 4 bgs., Schutte & Focke, Puerto Plata; 914 bgs., W. S. Hall & Co., Hamburg; **Bees**, 82 bbls., C. S. Pen e & Co., Rotterdam.

dam; 8 bgs., W. Schall & Co., Romana; 86 bgs., Guaranty Trust Co., Hamburg; 3 bgs., D. Steengrafe, San Juan; 196 blocks., Order, Aden; 5 cks., W. Schall & Co., Puerto Plata; 5 cakes, Cordillera Commercial Co., Puerto Plata; 3 seroons, Cordillera Commercial Co., Puerto Plata; **Paraffin**, 1,600 bgs., Asiatic Petroleum Co., Balikpapan

IMPORTS AT NEW YORK
Jan. 20 to 24

ACIDS—Boric, 200 bgs., Pacific Coast Borax Co., Leghorn; **Emetic**, 13 bbls., Superfos Co., Genoa; **Hypophosphorous**, 10 carboys, F. B. Vandegrift & Co., London; **Tannic**, E. M. Sergeant & Co., Hamburg; **Tartaric**, 454 kgs., Superfos Co., Genoa; 343 cks., W. Neuberg, Palermo

ALBUMEN—B. o. d., 40 cs., Grace National Bank, Hamburg

ALCOHOL—Denatured, 25 drs., C Esteve, Arcibo

AMMONIUM—3 cs., Mallinckredt Chemical Works, Hamburg; **Nitrate**, 1,056 cks., R. W. Greeff & Co., Oslo; **Phosphate**, 7 cks., Manaham Chemicals, Antwerp; 35 cks., Roessler & Hass'acher Chemical Corp., Antwerp

AMYL—Acetat, 9 cs., Houbigant & Co., Havre

ANTIMONY—18 cks., S. Fullwood, New castle; 11 chests, C. Tennant Sons, Hamburg; **Regulus**, 500 cs., J. H. Schroeder & Co., Hankow; 250 cs., Wah Chang Trading Co., Hankow; 487 cs., Kai Lee Gung, Hankow; 500 cs., J. H. Schröder & Co., Hankow; 487 cs., Kai Lee Gung, Hankow; 250 cs., Wah Chang Trading Co., Hankow; **Suphate**, 12 cks., Schofield Donald Co., Southampton

ARGOLS—316 bgs., C. Pfizer & Co., Buenos Aires; 265 bgs., Tartar Chemical Corp., Buenos Aires; 32 cks., Royal Baking Powder Co., Leghorn

ARSENIC—30 drs., Innes Speiden & Co., Hamburg

BARYTES—600 bgs., E. L. Bullock & Sons, Hamburg

CAMPHOR—100 cs., Girard Co., Keelung; 707 cs., Schering & Glatz, Hamburg; 100 cs., Girard & Co., Keelung; **Synth**, 200 cs., G. W. Sheldon & Co., Hamburg

CASEIN—3,652 bgs., Kalbfleisch Corp., Buenos Aires; 525 bgs., Brown Bros. & Co., Buenos Aires; 1,334 bgs., National City Bank, Buenos Aires; 121 bgs., D. C. Andrews & Co., Hamburg

CHALK—2 cs., W. H. Stone & Co., London; 600 bgs., E. L. Bullock, Antwerp; 3,520 bgs., O der, Antwerp; 339 bgs., Chaplain & Bibbo, Hamburg

CHEMICALS—5 cks., Superfos Co., Hamburg; 7 cs., Roessler & Hass'acher Chemical Corp., Hamburg; 2 cs., F. B. Vandegrift & Co., Hamburg; 20 cs., Lo Curto & Funk, Hamburg; 7 cks., Allied Asphalt & Minera Corp., Bristol

CHROME GREEN—3 cks., Stanley Doggett Inc., Bremen

CLAY—160 bgs., L. A. Salomon & Bros., Bristol; 75 cks., L. A. Salomon & Bros., Bristol; 24 bgs., Order, Bristol

COLORS—6 cs., La Fleur Co., Havre; 1 cs., Cupey Fills Havre; **Aniline**, 10 cks., General Dvestuff Corp., Hamburg; 18 bbls., Carbic Color & Chemical Co., Havre; 2 cs., American Exchange Bank, Havre; 47 cks., Ciba Co., Havre; 39 cys., Sandoz Chemical Works, Havre; **Bronze**, 17 cs., E. Steiger & Co., Bremen; 20 cs., B. F. Drakenfeld, Bremen; **Earth**, 37 cks., Wisni k., Tumpeer Chemical Co., Bremen; **Red Oxide**, 75 cks., J. Lee Smith & Co., Hull

DEXTRINE—75 bgs., Farmers Loan & Trust Co., Copenhagen

EARTH—50 bgs., Reichard Coulston, Leghorn; 10 bbls., Order, Leghorn; **Fuller's**, 227 bgs., R. I. Waddell Co., Hull

FERTILIZER—2 bxs., V. H. Hoube g. Inc., Buenos Aires; 800 bgs., Chase National Bank, Hull

GELATINE—65 cs., P. Puttmann, Bremen; 24 cs., W. E. Miller, Havre

GLUE—40 bgs., G. H. Humme', Hull; 10 cks., Poe' & Kelly, Havre; 200 bgs., J. Dick, Hamburg

GUM—65 cs., Guaranty Trust Co., Auckland; 323 cs., Chemical Nat'l Bank, Auckland; 50 cs., Irving Bank Columbia Trust Co., Auckland; 23 cs., National Bank of Commerce, Auckland; 20 cs., United National Bank, Auckland; 165 bgs., United National Bank,

Auckland; 334 cs., Order, Auckland; **Tragacanth**, 5 cs., William Mohrmann, London

GUM—Benzoin, 93 cs., F. B. Ross & Co., Tandjong Priok; 10 cs., Brown Bros. & Co., Sabang; 39 cs., Order, Sabang; **Chicle**, 559 bbs., Chicle Development Corp., Progresso; 11 bgs., H. Triest & Co., Vera Cruz; 12 bgs., Graham Hink ey, Vera Cruz; 60 bgs., J. A. Meduna, Progresso; 48 bbls., O. Gerdan & Co., Progresso; 223 bbs., Chile Development Corp., Progresso; **Copal**, 201 bbls., W. H. Scheel, Messar; 352 bgs., S. Winterbourne & Co., Messar; 428 bbls., S. Winterbourne & Co., Messar; 278 bbls., M. L. Van Voorden, Messar; 75 bbls., France Campbell & Darling, Messar; 99 bgs., Frank in Fourth Street National Bank, Messar; 19 bbls., Franklin Fourth Street National Bank, Messar; 53 bbls., Catz Ameican Corp. Messar; 1,371 bbls., Innes & Co., Messar; 212 bgs., Innes & Co., Messar; 30 bbls., Vennotschap Amsterdam, Macassar; 72 bbls., Order, Macassar; 345 bbls., Innes & Co., Macassar; 400 bgs., A. Klipstein & Co., Antwerp; 1,096 bgs., L. C. Gillespie & Sons, Antwerp; 1,370 bgs., L. C. Gillespie & Sons, Matadi; 204 bbls., Irving Bank Columbia Trust Co., Macassar; 69 bbls., France, Campbell & Darling, Macassar 66 bbls., Magnus, Manee & Reynaud, Macassar; 67 bbls., G. H. Linck, Macassar; 188 bbls., Paterson Boardman & Knapp, Macassar; 772 bbls., S. Winterbourne & Co., Macassar; 20 bgs., Innes & Co., Macassar; 87 bbls., Innes & Co., Macassar; **Dama**, 200 cs., Paterson, Boardman & Knapp, Batavia; 79 bgs., France, Campbell & Darling Messar; 627 bbls., France, Campbell & Darling; Messar; 50 cs., Paterson, Boardman & Knapp, Tandjong Priok; 50 cs., S. Winterbourne & Co., Tandjong Priok; 100 cs., Catz American Corp., Sebang; 100 cs., France, Campbell & Darling Sebang; 100 cs., Innes & Co., Sebang; 200 cs., Order, Batavia; 76 bgs., M. L. Van Voorden, Macassar; **Damar Black**, 167 b's., France, Campbell & Darling, Tandjong Priok; **Damar Dust**, 300 bgs., Lee, Higginson & Co., Batavia

OILS—Coconut, 7 -vl., Goldman, Sachs & Co., Colombo; **Cod**, 150 bbls., R. Badcock & Co.,

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Hull; 800 bbls., Order; Hull; Olive, 300 cs., Scaramelli & Co., Leghorn; 1,000 cs., F. Romeo & Co., Leghorn; 200 cs., Lekas & Drivas, Seville; 250 cs., Moschades Bros., Seville; 100 cs., J. De Redon, Seville; 800 cs., H. J. Heinz & Co., Seville; 60 drs., Lockwood, Brackett & Co., Seville; 140 drs., Eysse Olive Oil Co., Seville; 1,650 cs., Briones & Co., Seville; 420 drs., Briones & Co., Seville; 50 bbls., Briones & Co., Seville; Palm, 273 cks., African & Eastern Trdg Co., Opobo; 845,007 kils, Niger Co., Matadi; 649 drs., Niger Co., Matadi; 297 bbls., National City Bank, Belawan; Palm Kerne, 265 bbls., Order; Hull; Rape, 40 bbls., Order; Hull; 350 cs., Mitsui Bussan Kaisha, Kobe; 100 drs., Mitsui & Co., Moji; 00 drs., Chemical Nat'l Bank Moji; Se-rame, 100 bbls., Fisher, Helinshed Co., Hamburg; Wood, 410 bbls., Mitsui & Co., Hankow

IRON ORE—Grund, 82 cks., Stanley Doggett, Inc. Bremen

LEAVES—Stramcium, 50 b's., Order, Leghorn

LIME—Chlorinated, 40 cs., H. Kohnstamm & Co., Liverpool; Nitrate, 25 cks., R. W. Greeff & Co., Oslo

MAGNESITE—Lump, 6,000 bgs., Order, Madras

MAGNESIUM—Chloride, 133 drs., Order, Hamburg

MANURE SALT—45,358 kilos, Potash Imptg. Corp. of America, Hamburg

MICA—17 cs., Order, Buenos Aires; 50 cs., Irving Bank-Columbia Trust Co. Calcutta; 57 cs., National Bank of Commerce, Calcutta; Block, 22 cs., Storrs Mica Co., Rio de Janeiro; Spittings, 30 cs., Brown Bros. & Co., Calcutta

MYRABOLANS—2,800 pockets, Standard Bank of South Africa, Calcutta

PAINT—12 cks., J. Lee Smith & Co., Hull

POTASSIUM—Chlorate, 1,224 bbls., Seaboard National Bank, Hamburg; Muriate, 670 bgs., Potash Syndicate, Antwerp; 500 bgs., Potash Imptg. Corp., Bremen; 400 bgs., Potash Imptg. Corp. of America, Hamburg; 50 bgs., Potash Imptg. Corp. of America, Hamburg; Nitrate, 127 cks., Kuttroff, Pickhardt & Co., Hamburg; 762 bgs., Kuttroff, Pickhardt & Co., Hamburg

QUICKSILVER—45 flasks, Pabst Bros., Vera Cruz; 30 flasks, Order, Vera Cruz; 25 flasks, SHELLAC—232 bgs., A. Hurst & Co., Hamburg; 100 bgs., A. Hurst & Co., Hamburg; 25 bgs., Ralli Bros., London; Seedlac, 246 bgs., Order, Calcutta

SOAP—10 bgs., Order, Saonica; 200 cs., Anglo South American Trust Co., Seville

SODIUM—30 cs., Burroughs Wellcome Co., London; Citrate, 513 bgs., R. W. Greeff & Co., Oslo; Cyanide, 280 cans, Charles Hardy, Inc., Havre

SPONGES—58 bbls., Cunard S. S. Line, Havana; 58 bbls., J. Block, Inc., Havana; 18 b's, Order, Havana

SULPHUR—61 cks., Lo Curto & Funk, Bristol

SUMAC—20 cks., American Dyewood Co., Havre

TALC—146 bgs., Lunham & Moore, Leghorn; 250 bgs., National City Bank, Genoa; 900 bgs., C. Mathieu Co., Genoa

TAPIOCA—400 bgs., National City Bank, Macassar; Dust, 128 bgs., National City Bank, Macassar; Flake, 399 bgs., National City Bank, Sourabaya; Flour, 1575 bgs., Stein Hall & Co., Batavia; 4,900 bgs., National City Bank, Macassar; 500 bgs., Stein Hall & Co., Teuk Betong; 750 bgs., Order, Penang; 288 bgs., Bank of N. Y. & Trust Co., Batavia; 1,000 bgs., International Banking Corp., Batavia; 500 bgs., Bankers Trust Co., Batavia; 250 bgs., Catz American Corp., Batavia; 120 bgs., National City Bank, Sourabaya

ULTRAMARINE BLUE—20 bbls., Stanley Doggett, Antwerp

UMBER—20 cks., Wishnick-Tumpeer, Inc., Hull

VALONFA—Beans, 1,287 bgs., W. Schafl & Co., Smerna

WHITE—Mineral, 766 bgs., Whittaker, Clark & Daniels, Hull

WOODFLOUR—3,000 bgs., B. L. Soberski, Craske

WOOL GREASE—10 bbls., J. J. Shore & Co., Hamburg

ZINC—Oxide, 10 cs., C. L. Huisking, London

IMPORTS AT PHILADELPHIA

Jan. 12 to 19

ACID—Formic, 74 carboys., Order, Hamburg

ALLOY—Ferro, 1,072 bgs., Trumphy, Faesy & Besthoff, Inc., Genoa

AMMONIA—Muriate, 294 cks., Order, Rotterdam; 100 cks., Order, Rotterdam

AMMONIAC—Sal, 15 cks., Order, Hamburg; 186 cks., Order, Rotterdam

BARIUM—Chloride, 130 cks., Order, Antwerp

BONES—202,768 kilos, Brown Bros. & Co., Buenos Aires; 34 bgs., Brown Bros. & Co., Buenos Aires

CHALK—6,195 bgs., Chatham Phenix Nat. Bank & Trust Co., Antwerp; 5,500 bgs., Order, Antwerp; 500 tons, Brown Bros. & Co., London; Crude, 2,700 tons, Brown Bros. & Co., Boulogne-Sur-Mer

CHEMICALS—80 balloons, Roessler & Hasslacher Chemical Co., Rotterdam; 286 drs., Order, Rotterdam; 196 hmps., Order, Hamburg; 5 cs., Order, Hamburg; 50 drs., Order, Rotterdam; 80 cs., H. Kohnstamm & Co., Inc., Liverpool; 163 drs., Viscose Co., London

CLAY—100 cks., Brown Bros. & Co., Rotterdam; 7 cks., Adolphe Hurst & Co., Rotterdam

COPAL—300 bgs., Brown Bros. & Co., Antwerp

FLUORIDE—Sodium Silico, 285 bbls., Order, Copenhagen; 5 bgs., Order, Copenhagen

FLUORSPAR—498 tons, 14 cwt. 1 qr. 14 lbs., Standard Bank of South Africa, Ltd., Durban

GLYCERINE—49 drs., Order, St. Nazaire; 40 bbls., Order, Rotterdam; Crude, 60 drs., Order, Rotterdam; 30 drs., Order, Rotterdam; 98 drs., Order, London; Dynamite, 142 cks., Hercules Powder Co., Rotterdam

Saponified, 50 d.s., Order, Antwerp

GUM—Copa, 93 bgs., J. H. Faunce, Inc., Liverpool

LAC—Garnet, 200 cs., Order, Calcutta

LINSEED—16,997 bgs., Order, Buenos Aires

LITHOPONE—40 casks, African Metals Corp., Antwerp

MANURE—Nitrogenous, 203 bgs., Order, Antwerp

MEAL—Bone, 1,750 bgs., Barber & Garratt, Montevideo; 1,103 bgs., Order, Hamburg

MOLASSES—1,636,000 gals., Eastern Alcohol Corp., Cienfuegos; 85,000 gals., Lowry & Co., Inc., Antilla

MYRABOLANS—White, 2,640 pockets, Standard Bank of South Africa, Ltd., Calcutta; 1,753 pkts., Order, Calcutta

NITRATE—Lead, 20 cks., Order, Glasgow

OIL—Olive, 1,000 cs., Order, Genoa; 20 cs., Order, Genoa; 50 cs., Order, Genoa; 16 cs., J. A. Nietello, Naples; 22 cs., Order, Naples; Rape Seed, 50 drs., Corn Exchange Nat. Bank, Kobe; Refined Rape Seed, 50 drs., Order, Kobe; Sulphur, 100 bbls., Order, Naples

ORE—Bauxite Crude Iron, 742,000 kilos, Bk. of America, Rotterdam; Iron, 5,100 tons, Order, Port Keah; Pyrites, 7,988 tons, The Pyrites Co., Huelva; 5,827 tons, The Pyrites Co., Huelva

PEAT—151 bbls., Order, Copenhagen

POTASH—17 cks., T. G. Cooper & Co., Bremen; Caustic, 50 drs., Order, Hamburg; Muriate, 4,850 bgs., Societe Commerciale des Potasses d'Ajaccio, Antwerp

SALT—Epsom, 500 bgs., Order, Hamburg; 1,000 bgs., Wm. Larzere & Co., Bremen; 499 bgs., Order, Bremen; Gauder, 500 bgs., Order, Hamburg; Manure, 45,000 kilos, Order, Antwerp

SEED—Rape, 40 bgs., Order, Rotterdam

SHELLAC—860 bgs., Order, Calcutta

SODIUM—Phosphate, 134 cks., Tusci, Speiden & Co., Antwerp; Sulphide, 100 drs., Order, Antwerp; 752 drs., Hasshaw Fuller & Goodwin Co., Rotterdam; 61 cks., Order, Rotterdam

SYLVANITE—250 bgs., Order, Antwerp

TALC—400 bgs., Order, Bordeaux

TARTAR—84 bgs., Order, Bordeaux

WAX—Bees, 60 bgs., Franklin Fourth St. Nat. Bank, Calcutta

IMPORTS AT BALTIMORE

Jan. 13 to 20

EARTH COLORS—4 cs., 486 lbs., American Chocolate Sales Co., Singapore Maru, Ham-

LEUNASALTPETRE—3,629 bgs., 798,380 lbs., Kuttroff, Pickhardt & Co., Inc., New York, Singapore Maru, Hamburg

(Continued on page 157.)

Patents

Latest Issues Covering
Chemical Products and
Processes.

TO SECURE COPIES OF PATENTS

U. S., 10c U. S. Patent Office, Washington. British, draft on London, one shilling, British Patent Office, 25 Southampton B'dgs., Chancery Lane, W. C. 2, London. French one franc, Minister of Commerce & Industry, Paris. German, draft on Berlin, one mark, German Patent Office, Berlin.
Application date appears with each patent.

UNITED STATES PATENTS

Issued Jan. 31, 1927

- 1,613,620.—Cleaning Composition for Type. R. E. Neidig, Moscow, Id. Dec. 2, 1925.
1,613,632.—Purifying Sulphur. H. H. Wilkinson, Brooklyn, assignor, Union Sulphur Co. Nov. 26, 1923.
1,613,663.—Mixing Apparatus. F. B. Leopold, Pittsburgh. June 6, 1925.
1,613,674.—Curing Polymerized Styrol. I. Ostromislensky, New York, assignor, The Naugatuck Chemical Co., Naugatuck, Conn.
1,613,82.—Making Plaster and Mortar. A. E. Tuttle, assignor, Blue Diamond Materials Co., Boston, Mass.
1,613,689.—Paster Rectifier. C. W. Young, Omaha. May 17, 1923.
1,613,718.—Cracking Hydrocarbon Oils. C. L. Parmelee, West Orange, N. J., assignor, Sinclair Refining Co., Chicago. Oct. 8, 1924.
1,613,724.—Phenolic Resin Varnish.—L. M. Rossi, Perth Amboy, N. J., assignor, Bakelite Corp., New York. Dec. 15, 1924.
1,613,735.—Cracking Oils. O. P. Amend, New York. Mar. 3, 1922.
1,613,737.—Producing Residual Oil Products. E. E. Bartels, assignor, Standard Oil Co., Whiting, Ind. Nov. 17, 1924.
1,613,754.—Continuous Distillation of Oils. F. A. Howard and N. E. Loomis, Elizabeth, N. J., assignor, Standard Development Co. June 15, 1922.
1,613,757-8.—Coating Composition. A. F. Lindstrom, Nutley, N. J., assignor, Westinghouse Lamp Co. Sept. 23, 1921, and July 7, 1922.
1,613,808.—Non-Corrosive Alcohol Composition. W. T. Scheiber, Baltimore, assignor, U. S. Industrial Alcohol Co. Apr. 6, 1926.
1,613,894.—Indurating Porous Objects. J. T. Kessler, St. Louis. Aug. 24, 1925.
1,613,919.—Azo Dyes. H. Wagner, W. Langbein and K. Beck, Hoechst, and K. T. Thiess, Sindingen, Germany, assignor, Grasselli Dyestuff Corp., New York. Jan. 29, 1925.
1,613,966.—Electrolytic Cell. E. Sorenson, Rumford, Me., assignor, Oxford Paper Co. Aug. 8, 1925.
1,614,019.—Sponge Rubber. W. B. Pratt, Wellesley, Mass., assignor, Research Inc., Boston. Oct. 17, 1923.
1,614,035.—Composition of Matter from Black Liquor. L. C. Conner, Malden, Mass., assignor, A. S. Williams, Boston, and J. T. Collins, Sandwich, Mass. Aug. 14, 1924.
1,614,037.—Organic Peroxide process. R. H. McKee, New York. Oct. 5, 1923.
1,614,063.—Sulphur Compound. F. A. Frazier, Berkeley, assignor F. A. Frazier Co., San Francisco. Aug. 23, 1923.
1,614,072.—Treating Gas Containing Carbon Monoxide. W. H. Kniskern, Syracuse, assignor, Atmospheric Nitrogen Corp., Solvay, N. Y. Sept. 21, 1923.
1,614,095.—Briquetting Process. E. B. A. Zwayer, Perth Amboy, N. J., assignor, The General Fuel Briquette Corp., New York. June 6, 1925.
1,614,148.—Rendering Liquids Non-Corrosive. J. F. Musselman, Bronxville, N. Y., and P. West, Newark, N. J., assignors, Elliott Co., Pittsburgh. Mar. 27, 1920.
1,614,025.—Composition of Matter from Mono and Dicyclic Phenols and Aldehydes.

A. Amann and E. Fonrobert, Wiesbaden, assignors, Chemische Fabriken Dr. K. Albert G. m. b. H., Amoneburg, Germany. Dec. 13, 1923, and Apr. 25, 1921.

1,614,185.—Carrying on Catalytic Reactions. F. A. Canon and C. E. Andrews, assignors, The Selden Co., Pittsburgh. June 20, 1922.

1,614,195.—Esters of Oxy Acids. A. Haussner, Nieder-Ingelheim, assignor, C. H. Brehringer and B. Sohn. Feb. 20, 1925.

1,614,232.—Automobile Top Dressing. C. C. Davis, Pomona, Calif. July 1, 1925.

1,614,253.—Drying Apparatus. N. C. Nielsen, Ebeltoft, Denmark. July 28, 1925.

1,614,281.—Germicide. J. W. Churchman, assignor, National Aniline & Chemical Co., New York. July 13, 1923.

1,614,315.—Condensing Soluble Gases. J. F. Managhan, Waltham, Mass. Mar. 17, 1922.

1,614,315.—Composition for Making Casting Patterns. C. H. Pape, Portland, Ore. Sept. 26, 1923.

1,614,352.—Purifying and Enriching Crude Graphite. E. J. E. Dumond, Paris. Apr. 8, 1925.

1,614,364.—Drying and Grinding Machine for clay, etc. G. Hidoux, St. Denis, assignor, Societe d'Exploitation des Procédés Hidoux. Feb. 14, 1924.

1,614,398.—Hydroxybenzantrones. K. Schirmacher, K. Zahn and K. Wike, Hoechst, and P. Ochwat, Bad-Soden, Germany, assignors, Grasselli Dyestuffs Corp. Apr. 28, 1924.

1,614,409.—Emulsifying, Mixing and Grinding Machine. R. Surtees, Gateshead, England. May 28, 1926.

1,614,447.—Low Density Dynamite. J. Marshall, assignor E. I. du Pont de Nemours & Co., Wilmington, Del. July 30, 1924.

BRITISH PATENTS

Issued Dec. 15, 1925

259,882.—Treating Liquids with Gases. F. C. Smith, Westminster. July 10, 1926.

259,889.—Colloidal Sols. G. W. Acheson, Caldwell, N. J. July 23, 1926.

259,895.—Propagating Ferments. W. Matzka, London. Apr. 8, 1925.

259,926.—Photographic Emulsions. A. G. fuer Anilin Fabrikation, Berlin, assignor, I. G. Farbenindustrie A. G., Frankfurt. Aug. 16, 1926.

259,930.—Oxidizing Organic Compounds. Si'esia Verein Chemischer Fabriken, Saarau, Germany. Sept. 10, 1926.

259,933.—Vulcanization Accelerators. S. M. Cadwell, Leonia, N. J., and A. T. Maxmoff, New York, assignors, Naugatuck Chemical Co., Naugatuck, Conn. Oct. 15, 1925.

259,944.—Liquid Fuel. I. G. Farbenindustrie A. G., Frankfurt. Oct. 2, 1926.

259,948.—Pectin. E. Jameson, Corona, assignor, California Fruit Growers Exchange, Los Angeles. Oct. 5, 1926.

259,950.—Urea Formaldehyde Condensation Products. I. G. Farbenindustrie A. G., Frankfurt. Oct. 6, 1926.

259,953.—Glass Making and Barium Silicate. Rhenania-Kunheim Verein Chemischer Fabriken A. G., Benin. Oct. 8, 1926.

259,959.—Reaction Products of Cashew Nut Shell Oil. M. T. Harvey, New York. Oct. 11, 1926.

259,960-1.—Pyridine Derivatives

SOLVENTS

Butanol

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Plants:

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Deutsche Gold und Silberscheideanstalt vorm. Roessler, Frankfurt. Oct. 11, 1926.

259,970.—Trisazo Dyes and Use. Farbenfabriken vorm. F. Bayer & Co., Leverkusen, assignor, I. G. Farbenindustrie A. G., Frankfurt. Oct. 13, 1926.

259,973.—Isonaphthylidene Compounds. Deutsche Gold und Silberscheideanstalt Roessler, Frankfurt. Oct. 13, 1926.

259,977.—Iodopyridine. Deutsche Gold und Silberscheideanstalt Roessler, Frankfurt. Oct. 14, 1926.

259,982.—Pyridine Compounds. Deutsche Gold und Silberscheideanstalt Roessler, Frankfurt. Oct. 14, 1926.

259,999.—Dye Preparations. Farbwerke vorm. Meister, Lucius & Bruening, Hoechst, assignor, I. G. Farbenindustrie A. G., Frankfurt. Oct. 18, 1926.

260,000.—Anthracene Derivatives. Farbwerke vorm. Meister, Lucius & Bruening, Hoechst, assignor, I. G. Farbenindustrie A. G., Frankfurt. Oct. 18, 1926.

260,001.—Preserving India Rubber. Soc. Italiana Pirelli, Milan, Oct. 18, 1926.

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Epsom Salt	Iron Bichloride
Tego Salt	Zinc Chloride
Hyposulphite of Soda	

260,031.—Preserving Stone. D. De Ros and F. Ba-ton, London. July 8, 1925.

260,034.—Impact Pulverizers. W. A. Cloud, London. July 20, 1925.

260,037.—Sulphuric Acid. Metallbank und Metallurgische Ges. A. G., Frankfurt. July 24, 1925.

260,050.—Detergents. H. J. Nunan, Philadelphia. July 24, 1925.

260,058.—Nitro and Amino-Diarylsulphides. British Dyestuffs Corp., Manchester. July 30, 1925.

260,074.—Plastic Compositions. T. N. Backhouse and H. Oliver, London. Aug. 22, 1925.

260,080.—Fibrous Plastic Compositions. W. H. Bourne, London. Sept. 11, 1925.

260,081.—Settling Tanks. S. Hunter, Penzance, Cornwall. Sept. 14, 1925.

260,108.—Preserving Vegetable Oils. H. Boman, Hamburg. Nov. 9, 1925.

260,110.—Plaster of Paris. A. E. Lovatt, F. M. and E. A. Mitchell, Heanor, Derbyshire. Nov. 11, 1925.

260,129.—Desulphurizing Paraffin and Naphthalene. K. Bube, Halle Saale, Germany. Dec. 2, 1925.

260,133.—Crystallizing. Aktieselskapet Krystal, and F. Jeremiasen, Oslo, Norway. Jan. 5, 1926.

260,171.—Abrasive Cement. H. O. Keay, Quebec, Canada. Apr. 29, 1926.

260,186.—Amino Compounds. I. G. Farbenindustrie A. G., Frankfurt. June 10, 1926.

260,190.—Bleaching. I. G. Farbenindustrie A. G., Frankfurt. June 22, 1926.

260,204.—Polishing Compound. H. J. Nunan, Philadelphia. July 24, 1925.

260,212.—Basic Copper Sulphate. Bernberg A. G., Barmen, Germany. June 25, 1925.

FRENCH PATENTS Issued Dec. 16, 1926

618,206.—Stable Hydrocyanic Acid. Deutsche Gold und Silberscheideanstalt vorm. Roessler. June 29, 1926.

618,207.—Injecting Liquids in Pulverized State Into Lead Chambers. A. G. fuer Bergbau Blie & Zinkfabrikation zu Stolberg & in Westfalen. June 29, 1926.

618,307.—Cyanide Preparation. A. Stalhan. Apr. 2, 1926.

618,308-9.—Anthraquinone Derivatives. I. G. Farbenindustrie A. G. Apr. 16, 1926.

618,374-5.—Acid Sulphate Amides and Esters. Roessler & Hasslacher Chemical Co. June 28, 1926.

618,418.—Metallic Compounds Containing Phosphorus. W. Koehler. July 2, 1926.

618,435.—Alkaline Carbonates and Ammonia. A. F. Meyerhofer. July 2, 1926.

618,474.—Solid Ammonia Compounds Plus Carbon Dioxide and Water. Synthetic Ammonia and Nitrates, Ltd. July 3, 1926.

618,560.—Sulphuric Acid Process. Le Moines de Sagazan. Nov. 12, 1925.

31,551 Addition to 575,913.—Methanol or Other Oxygenated Carbon Compounds. Badische Anilin & Soda Fabrik. Jan. 30, 1926.

618,172.—New Color Lakes. I. G. Farbenindustrie A. G. Jan. 28, 1926.

618,222.—Dinaphthyl Dicarboxylic Acids. I. G. Farbenindustrie A. G. June 29, 1926.

618,510.—Azo Colors. I. G. Farbenindustrie A. G. July 5, 1926.

3,556 Addition to 611,004.—New Colors. I. G. Farbenindustrie A. G. Feb. 8, 1926.

618,302.—Treating Hydrocarbons. R. Hense. Mar. 9, 1926.

618,298.—Soaps Containing Oxygen Compounds. E. Flammar and C. Kelber. Nov. 20, 1925.

618,490 and 618,500.—Hydrogenation and Reduction of Hydrocarbons. Soc. Int. des Combustibles Liquides. July 5, 1926, and July 6, 1926.

618,217.—Preparing Emulsions, Solutions and Mixtures. J. McGougan and J. Hunter. June 9, 1926.

618,312.—Filter for Liquids. M. Duchemin. May 5, 1926.

618,348.—Removing Sulphuretted Hydrogen. Car. Stil. June 10, 1926.

618,432.—Preserving Wood. C. Schantz. July 2, 1926.

618,439.—Heating Catalytic Masses for synthesis of gases. G. L. E. Patart. July 2, 1926.

618,462.—Catalytic Apparatus improvement. Synthetic Ammonia & Nitrates, Ltd. July 3, 1926.

618,470.—Fuel Briquette Binder. A. Taping. July 3, 1926.

31,550 Addition to 578,564.—Treating Marine Algae. P. Goess. Jan. 29, 1927.

GERMAN PATENTS Issued Dec. 23, 1926

436,365.—Producing Insoluble Azo Colors On the Fiber. I. G. Farbenindustrie A. G. Frankfurt. July 4, 1924.

436,366.—Separating Solid and Liquid Mixtures from Air. Gases and Vapors. P. Graefe, Schwanheim, Germany. Feb. 3, 1924.

436,367.—Melting Substances in Double Walled Vessels for carrying out reactions. Dr. E. Legeler, Premnitz, Germany. July 7, 1925.

436,368.—Colloids and mechanical process for making same. Sudenburger Maschinenfabrik & Eisengieserei A. G., Maderburg-Sudenburg and Dr. W. Ostermann, Oschersleben, Germany. Mar. 28, 1925.

436,280.—Pure Phosphoric Acid from Phosphates. C. Milberg, Asnières, France. Sept. 23, 1924.

436,290.—Alkali and Alkali Earth Amalgam, decomposing. I. G. Farbenindustrie A. G., Frankfurt. Feb. 19, 1924.

436,369.—Iron Carbonyl process. I. G. Farbenindustrie A. G. Feb. 13, 1925.

436,434.—Polyethylenethiohydrin and Mixtures with Ethylenethiohydrin. I. G. Farbenindustrie A. G. Aug. 28, 1921.

436,521.—1-Dialkylamino-3-Oxyalkyl 3-Carboxylic Acid and Derivatives. I. G. Farbenindustrie A. G. Dec. 7, 1923.

436,444.—Decomposing Coal Tar or Its Distillates Into Phenols and Neutral Oils. Z. M. Stinnes and Dr. A. Weindel, Essen. July 22, 1922.

436,522.—Phenols from Ammonia Liquors. Z. M. Stinnes. Essen. Mar. 14, 1925.

436,523.—Colorless Sulphur Containing Compounds with Phenols easily absorbed by textile fibers and other substrata. I. G. Farbenindustrie A. G. Apr. 25, 1924.

436,445.—Ethers of Non-Resinous Condensation Products from Phenol and Formaldehyde. A. Riebeck'sche Montanwerke A. G., Halle. Jan. 15, 1921.

436,446.—Water Soluble Condensation Products from Aromatic Oxy Compounds. Dr. A. Kaempf, Premnitz, Germany. June 21, 1923.

436,524.—2-Oxynaphthalene-6-Carboxylic Acid. I. G. Farbenindustrie A. G. Aug. 17, 1924.

436,521.—Diazo Oxyanhydrides of Ben-

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Tartaric Acid U. S. P.

TARTAR CHEMICAL WORKS

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zanthrone Series. I. G. Farbenindustrie A. G. Nov. 10, 1923.

436,447.—Silver Complex Compounds of the Anthraquinoglucosides. Chemische Fabrik "Norgine" Dr. V. Stein, Prague, Czechoslovakia. Mar. 22, 1924.

436,545.—Leuco Oxyanthraquinones. I. G. Farbenindustrie A. G. July 4, 1925.

436,389.—Bak Azo Co.ors. I. G. Farbenindustrie A. G., Frankfurt. July 15, 1923.

436,533.—Anthracene Colors. I. G. Farbenindustrie A. G. Mar. 1, 1925.

436,534.—Dibenzanthrone Colors. I. G. Farbenindustrie A. G., Aug. 12, 1924.

436,535-9.—Anthraquinone Dyes. I. G. Farbenindustrie A. G. Jan. 25, 1925 Feb. 17, 1925, Feb. 17, 1925, Aug. 22, 1923, and Nov. 17 1924.

436,507.—Waterproofing Composition for Concrete consisting of soap, sand and alum. F. Guy, Che sea, and M. Livingstone Davey, Melbourne, Australia. Feb. 9, 1924.

IMPORTS MANIFESTS

(Continued from page 154.)

MANURE—Gcat, 750 tons, Sumter Fertilizer Works, schooner Gen. Leon Jurado, Venezuela; 400 tons, Consumers' Chemical Co., Gen. Leon Jurado, Venezuela

ORE—Iron, 21,500 tons, Bethlehem Steel Corp., Amerikaland, Cruz Grande; 11,000 tons, Bethlehem Steel Corp., Santore, Daiqui

POTASH—55 bb's., 58,608 lbs., Roess'er & Hasslacher Chemical Co., Singapore Maru, Hamburg; **Kainit**, 408,045 lbs., Potash Importing Corp., Singapore Maru Hamburg; **Manure Salt**, 451,630 lbs., Potash Importing Corp., Singapore Maru, Hamburg; 199,929 lbs., F. H. Shalvus Co., Singapore Maru, Hamburg; **Muriate**, 500 bgs., 100,474 lbs., Potash Importing Corp., Singapore Maru, Hamburg

IMPORTS AT NEW ORLEANS

Jan. 14 to 21

BAUXITE—3,228 tons, Republic Mining Co., Georgetown

CREOSOTE—800,000 gals., Order, Newark, N. J.

CALCIUM CARBIDE—750 drs., Order, Antwerp

FERTILIZER—435 sks., Order, Bremen

KAINIT—4,500 sks., Order, Bremen

MAGNESIUM—36 drs., Order, Bremen

MOLASSES—500,000 gals., Dunbar Co., San Pedro

POTASH—Caustic, 183 drs., Order, Hamburg

SODIUM—Cyanure, 224 cs., Order, Antwerp

SARSAPARILLA—5 bls., Order, Vera Cruz

SALTPETRE—193 cks., Order, Hamburg

IMPORTS AT WILMINGTON, N. C.

Jan. 14 to 20

CALCIUM NITRATE—600 tons, Order, Hamburg

LEUNASALPETRE—500 tons, Order, Hamburg

POTASH SALTS—Kainit, bu'k, 1,400 tons, Order, Hamburg; bagged, 400 tons, Order, Hamburg;

Manure Salts, 20%, 1,000 tons, Order, Hamburg;

30%, 225 tons, Order, Hamburg;

Sulphate 70 tons, Order, Hamburg;

Sulphat Magnesia, 100 tons, Order, Hamburg

Newport fast chrome brown E B is recommended by Newport Chemical Works for dyeing light and medium shades of brown as well as mode shades on wool in all stages of manufacture. It is level dyeing, of good solubility, penetrates well and is suitable for use in all types of dyeing machines.

World trade notes on chemicals, issued by Chemical Division Bureau of Foreign and Domestic Commerce, now carries an index, listing all reports from consuls and other sources.

TRIBUTE TO C. A. GRASSELLI

C. A. Grasselli received a tribute to his business foresight and financial ability at a meeting of Cleveland's Chamber of Commerce Jan. 18, when Prof. W. R. Veazey, of Case School of Applied Science said to the 2,000 business men present:

"One to whom Cleveland owes a great debt of gratitude for his scientific skill, and organizing genius, in producing essential chemical substances in vast quantities and at a minimum of cost. In 1885 this citizen, who, from 1885 to 1915, was president of Cleveland's largest chemical concern, combined a number of chemical interests into a single corporation. In 1915 he retired from its presidency and is chairman of its board today.

"This man began his active career when he was fifteen years old and is still active and much beloved by all who know him. It is indeed a profound pleasure to have the privilege of doing honor to Cleveland's distinguished citizen, C. A. Grasselli."

Protest of Vera Chemical Co., Canada, against the requirement that carload shipments of rosin be packed in barrels, was overruled by Interstate Commerce Commission, which found the rates not unreasonable or unlawful. The commission affirmed its former findings that rates on rosin, in carloads, to Burlington, Ont., from Gulf and south Atlantic ports were not unduly prejudicial, that rates from Gulf ports were not unreasonable, but that rates from South Atlantic ports were unreasonable.

Fertilizer consumption in December, 1926, was 18.7 per cent less than for December, 1925; it was an increase of 46.5 per cent over November, 1926.

Lewis E. Harvie, of Virginia Carolina Chemical Co., for thirty years, died Jan. 17.

RICH STRIKE OF COPPER

Anaconda Copper Mining Co. has made a rich strike of copper ore in North Lily ground in the Tintic district in a long drift run by Anaconda Copper Mining Co. by agreement from the workings of Tintic Standard Milling Co., richest and most important single producer of silver in the world. Practically all the stock in North Lily Mining Co. is owned by International Smelting Co., subsidiary of Anaconda Copper Mining Co.

November exports of linseed oil totaled 118,751 pounds valued at \$16,239; and of soya bean oil, 248,431 pounds valued at \$32,343.

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Business Opportunities

WOULD LIKE to hear from some one having plant with spare tanks that could be used for manufacturing products that we have a regular sale for. Would consider consolidation of interests. Should be in or around Newark. Address S. G. 810 Broad St., Newark, N. J.

FERTILIZER MANUFACTURER wanting to reduce overhead expense by manufacturing new products. Will buy secret formulae. Box 180 CHEMICAL MARKETS.

CHEMICAL MANUFACTURERS' REPRESENTATIVE, CHICAGO, open for one or two lines, for Packers (Meat), Enamellers, Soap Manufacturers, Edible Oil Refiners, etc. Specialty considered. Twelve years' acquaintance with trade. Highest reference. Box 611, CHEMICAL MARKETS.

Situation Wanted

NOW AVAILABLE a man who is peculiarly fitted for assistant to high executives in the chemical or allied industries. Present employment executive where tact, chemical knowledge and ability to deal and correspond with business men and employees are prerequisites. 39 years of age, a post-graduate American chemist. For details write Box 611, CHEMICAL MARKETS.

CHEMIST, 20 years' experience organic, inorganic chemicals, who has manufactured several highly remunerative products; well recommended; wants connection. Moderate salary. Box 619 CHEMICAL MARKETS.

CHEMICAL SALES and sales promotion. Young man, eight years' experience actual selling and inside mail sales promotion; charge advertising and correspondence; technically trained; available immediately. Box 596, CHEMICAL MARKETS.

FOR SALE—Complete files of DRUG & CHEMICAL MARKETS, unbound, \$5.00 a volume.

CHEMISTS (2), several years' experience commercial consulting work; creative and exclusive ability plus intelligent and diligent application. Box 620, CHEMICAL MARKETS.

CHEMIST, Ph.D., organic, 15 years research, production and business experience; formerly Bureau of Standards; technical proficiency with understanding commercial aspects involved; references. Box 615, CHEMICAL MARKETS.

Help Wanted

LABORATORY ASSISTANT — Young man wanted as assistant in large industrial chemical manufacturer's plant. Laboratory testing and analytical work principally with opportunity to assist in research problems. Salary \$1,800. Full particulars in application. Box 504, CHEMICAL MARKETS.

SHIPPING CLERK familiar with packing of chemical products wanted to take charge of warehouse in Brooklyn. Box 506, CHEMICAL MARKETS.

WANTED—Assistant to Sales Director of large chemical and oil jobbers in Metropolitan District. Must have real initiative and executive ability. Excellent opportunity for right man. State age, experience, and salary expected. Communications treated confidential. Box 600, CHEMICAL MARKETS.

INDUSTRIAL ALCOHOL manufacturer desires to engage to act as representative parties knowing the trade in large centers in Alabama, Arkansas, Colorado, Michigan, Missouri, North Carolina, South Carolina, Ohio, Oklahoma, Tennessee, Texas, Virginia, West Virginia, Georgia and northeastern states. Give full references and experience. Box 607, CHEMICAL MARKETS.

WANTED—Salesman familiar with Soap Manufacturers trade to take a side line for importer. Box 613, CHEMICAL MARKETS.

RUBBER CHEMIST—Manufacturer requires service of technical man with practical plant experience. Box 505, CHEMICAL MARKETS.

CHICAGO CHEMICAL and color house seeks salesman for middlewestern territory. Must live in Chicago. State history, experience. Give all details possible; also salary expected. Box 585, CHEMICAL MARKETS.

SALESMAN WANTED in the East and Middle West for successful by-product (specialty non-competitive) used in the soap industry. Must be thoroughly acquainted in this field. Good future. Write full particulars as to experience, etc. Box 538, CHEMICAL MARKETS.

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Discontinuing our Platers' Supply Department, we will receive offers for following: R. & H. Cyanegg.

9-100 lb. drums; 475 lbs. in 23 lb. cans, 600 lbs., in 50 lb. cans.
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400-lbs. of Zinc Cyanide.
4-bb's. Single Nickle Sulphate.
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BARYTES for sale. Product of a mine in the French Broad valley district. Analysis shows Barium Sulphate 73.67%; Calcium Fluoride 11.90%; Silica 12%; Iron and Aluminum Oxides .69%. Also products from other mines showing analysis varying from 86 to 92% Barium Sulphate. For full information apply to James E. Rector, Asheville, N. C.

WANTED—Copy of CHEMICAL MARKETS Vol. 19, No. 10, dated July 15, 1926, to complete files of Public Library. The Director, New York Public Library.

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